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ART UNIT 3723

APPLICANTS JACKSON ET AL

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RESPONSIVE TO THE OFFICE ACTION MAILED 01/18/05

IN THE CLAIMS:

Claim 1. Currently Amended. An automobile pneumatic jack assembly comprising:

[at least one pneumatic cylinder] ~~two to four pneumatic cylinders~~ [assembly] capable of lifting a vehicle to a suitable height to allow repairs to tires and at ~~least some~~ [other] vehicle parts;

at least one compressor,

at least one distribution manifold assembly, and

electrical controls for controlling the operation of said pneumatic jack assembly.

Claim 2. Canceled.

Claim 3. Currently Amended. [An] ~~The~~ automobile pneumatic jack assembly according to Claim [2] 1 wherein said [pneumatic] ~~pneumatic~~ [cylinder assemblies] ~~cylinder assemblies~~ are mounted to said automobile chassis through said frame by a ~~connection selected from~~ welding, mechanical fasteners, or [any other suitable means.] brazing

Claim 4. Currently Amended. [An] ~~The~~ automobile pneumatic jack assembly according to claim [2] 1 wherein said pneumatic cylinder assemblies are mounted to said automobile chassis through said frame by a ~~connection selected from welding, brazing and mechanical fasteners.~~

Claim 5. Currently Amended. [An] The An automobile pneumatic jack assembly according to claim [21] 1 wherein said air compressor uses vehicle electrical power and is capable of providing adequate air pressure to lift a vehicle to a suitable height to allow repairs to tires and at least some other automobile parts.

Claim 6. Currently Amended. [An] The An automobile pneumatic jack assembly according to claim [5] 1 wherein said air compressor is mounted in a location within the vehicle permitting efficient routing of pneumatic and electrical supplies.

Claim 7. Currently Amended. [An] The An automobile pneumatic jack assembly according to claim 1 wherein said distribution manifold assembly accepts air pressure from said air compressor and delivers it to said pneumatic cylinders via pneumatic solenoids.

Claim 8. Previously Amended. [An] The automobile pneumatic jack assembly according to claim 7 wherein said distribution manifold assembly contains a plurality of said pneumatic solenoids, one for each of the said pneumatic cylinders.

Claim 9. Previously Amended. [An] The automobile pneumatic jack assembly according to claim 8 wherein each of the said pneumatic solenoids operate on electrical power and conduit means direct air pressure to said solenoid's corresponding pneumatic cylinder.

Claim 10. Previously Amended. [An] The An automobile pneumatic jack assembly according to claim 1 wherein said electrical controls comprise a power relay, a control box, and an electrical interlock switch.

Claim 11. Currently Amended. An electrical control system for an automobile pneumatic jack assembly comprising:

a power relay activated by low current voltage [and] which applies high-current voltage to a compressor; and wherein said power relay reduces the need to run high current carrying wiring to said control box, and allows the use of low-current components;

a control box; and

an electrical interlock switch,

wherein said electrical interlock switch is activated when the vehicle's parking brake is applied, ensuring the vehicle is secured prior to system operation.

Claim 12. Previously Amended. [An] The electrical control system for an automobile pneumatic jack assembly according to claim 11 wherein said control box contains switching and indicating circuitry for the operator.

Claim 13. Previously Currently Amended. [An] The electrical control system for an automobile pneumatic jack assembly according to claim 12 wherein said control box contains a key switch that provides extra safety measures to ensure the system is not accidentally activated.

Claim 14. Previously Amended. [An] The electrical control system for the automobile pneumatic jack assembly according to claim 13 wherein said control box contains a plurality of three-position rocker switches to direct electrical power to said pneumatic solenoids when activated by the operator.

Claim 15. Previously Amended. [An] The An electrical control system for an automobile pneumatic jack assembly according to claim 14 wherein said control box contains a light emitting diode (LED) that illuminates when power is applied to the system.

Claims 16 - 19 Canceled.

Claim 20. Currently Amended. [An] The [A] control [box for an electrical control] system for an automobile pneumatic jack assembly according to claim [18] 21 wherein said control [box] system contains switching and indicating circuitry for the operator .

Claim 21. New. An electrical control system for an automobile pneumatic jack assembly comprising:

a power relay;

a control box; and

an electrical interlock switch,

wherein said electrical interlock switch is activated when the vehicle's parking brake is applied, ensuring the vehicle is secured prior to system operation; and wherein said power relay is activated by low-current voltage when commanded by the operator and applies high-current voltage to said air compressor.

Claim 22. Currently Amended. A control [box for an electrical control] system for an automobile pneumatic jack assembly according to claim 21 comprising: switching and indicating circuitry for the operator; at least one key switch that provides safety to ensure the system is not accidentally activated; said control box also containing a plurality of switches to direct electrical power respectively to said pneumatic solenoids when activated.

Claim 23. New. An automobile pneumatic jack assembly comprising:
two to four pneumatic cylinders mounted at various locations on an
automobile chassis having a frame,
said pneumatic cylinders being capable of lifting a vehicle to a suitable height
to allow repairs to tires and other vehicle parts;
at least one compressor,
at least one distribution manifold assembly, and
electrical controls for controlling the operation of said pneumatic jack
assembly.

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